This Career Pathway Plan of Study (based on the Power, Structural and Technical Systems Pathway of the Agriculture, Food and Natural Resources Career Cluster) can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner’s educational and career goals. *This Plan of Study, used for learners at an educational institution, should be customized with course titles and appropriate high school graduation requirements as well as college entrance requirements.

### SAMPLE Occupations Related to This Pathway

**Occupations Requiring Postsecondary Education**
- Communication Technician
- Database Administrator
- Electronic Systems Technician
- Equipment/Parts Manager
- GPS Technician
- Heavy Equipment Maintenance Technician
- Information Lab Specialist
- Machine Operator
- Machinist
- Recycling Technician
- Remote Sensing Specialist
- Welder

**Occupations Requiring Baccalaureate Degree**
- Agricultural Applications Software Developer/Programmer
- Agricultural Educator
- Agricultural Engineer
- Waste Water Treatment Plant Operator

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<tr>
<th>EDUCATION LEVEL</th>
<th>GRADE</th>
<th>English/Language Arts</th>
<th>Math</th>
<th>Science</th>
<th>Social Studies/Sciences</th>
<th>Other Required Courses</th>
<th>Other Electives</th>
<th>Recommended Electives</th>
<th>Learner Activities</th>
<th>SAMPLE Occupations Related to This Pathway</th>
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<td><strong>SECONDARY</strong></td>
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Articulation/Dual Credit Transcribed-Postsecondary courses may be taken/moved to the secondary level for articulation/dual credit purposes.

### WITC AGRICULTURAL POWER & EQUIPMENT TECHNICIAN

<table>
<thead>
<tr>
<th>Year</th>
<th>Course</th>
<th>Success Strategies 1: Information Resources</th>
<th>Introduction to 12-Volt Electrical Theory; Introduction to Diesel Engines; Gas Engines; 12-Volt Electrical 1; Diesel Engines; 12-Volt Electrical 2; <strong>Welding for Mechanics</strong></th>
<th>Advanced Standing Option</th>
<th>Transcripted Credit Option</th>
<th>Master's Required</th>
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<td><strong>Communication Strategies</strong>; <strong>Information Technology</strong></td>
<td><strong>Technical Science</strong>; <strong>Research and Development</strong></td>
<td><strong>Power, Motion, and Energy</strong>; <strong>Automation and Control</strong></td>
<td><strong>Power and Motion Systems</strong>; <strong>Research and Development</strong></td>
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</table>

*WITC has articulation agreements with the following institutions for students who graduate from WITC with a Technical Diploma in Agricultural Power & Equipment Technician. Students should check with the institution they wish to transfer to for specific courses and credits that transfer.*

**PRIVATE:** Upper Iowa University, Fayette, IA or Online Programs

**UW:** UW-Stout

Credits may transfer to other institutions. Check with admissions advisors at institutions for specific course and/or credit transfers.

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